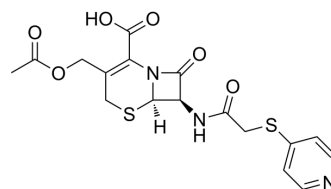


## Cephapirin

<b>Cat. No.:</b>	HY-A0153
<b>CAS No.:</b>	21593-23-7
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>17</sub> N <sub>3</sub> O <sub>6</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	423.46
<b>Target:</b>	Antibiotic; Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Cephapirin (Cefapirin) is an cephalosporin antibiotic with broad-spectrum antimicrobial activity <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	β-lactam
<b>In Vitro</b>	Cephapirin (Cefapirin) inhibits <i>Staphylococcus aureus</i> by cephapirin concentrations of 0.09 to 12.5 μg/mL <sup>[2]</sup> . Cephapirin (Cefapirin) inhibits <i>S. epidermidis</i> , <i>S. viridans</i> , <i>S. pyogenes</i> , and <i>Diplococcus pneumonia</i> isolates by less than 1 μg/mL <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Cephapirin (Cefapirin) (200 mg; i.m.;cows) is effective for cows infected with <i>S. aureus</i> <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Bran JL, et al. Clinical and in vitro evaluation of cephapirin, a new cephalosporin antibiotic. *Antimicrob Agents Chemother.* 1972 Jan;1(1):35-40.
- [2]. Axelrod J, et, al. Cephapirin: in vitro antibacterial spectrum. *Appl Microbiol.* 1971 Nov;22(5):904-8.
- [3]. Roy JP, et, al. Efficacy of a 5-day extended therapy program during lactation with cephapirin sodium in dairy cows chronically infected with *Staphylococcus aureus*. *Can Vet J.* 2009 Dec;50(12):1257-62.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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